

INSTALLATION PROCEDURE

List of Materials (Battery not included):

- One 15 Watt Solar Panels (including pre-connected wire and blocking diode, which prevents reverse current)
- Two Battery Clamps (+red, -black)
- Four Rust Resistant Mounting Screws

The solar panels you have bought will begin to generate power even under the lowest intensity daylight conditions. In order to properly connect the panel, please read the following instructions carefully. Your warranty depends on having properly installed and operated this unit.

STEP 1- Position the panels. Position the solar panel where you wish it to be permanently placed. Insert each mounting screw and tighten carefully. Do not over-tighten. You must ensure that the position in which you place the panel maximizes available daylight exposure.

STEP 2- Connecting to the battery. If you are attaching your panel directly to the battery then connect the battery clamps according to the proper polarity (i.e. red clamp to positive white wire, black clamp to negative black wire). Then connect the clamps in parallel to the battery terminals ensuring that all connections are positive (+) to positive (+) and (-) negative to negative (-).

Important Note: We highly recommend using an ICP Charge Controller (bought separately) as it will protect your battery from overcharging and optimize the charging process. If the vendor from whom you have purchased this solar charger does not carry ICP controllers, please contact us toll-free at 1-888-427-7652 for a dealer nearest you.

FREQUENTLY ASKED QUESTIONS

Q: HOW MUCH POWER DOES THE ICP PRO 15W PRODUCE?

A: Each hour of sunlight will produce 15 Watts/hr (or 1 Amp/hr). An average day of 5 hours of sunlight will produce approximately 75 Watts-hrs or 5 Amps-hrs.

Q: DO I HAVE TO DISCONNECT THE PANELS FROM THE BATTERY WHEN I DRIVE OR WHILE I AM RECHARGING MY BATTERY WITH MY GENERATOR?

A: No, ICP solar panels are designed to be permanently connected to the battery. There is no need to disconnect them when charging the batteries by other means such as AC chargers, or your vehicle's generator or alternator.

Q: WHAT TYPES OF BATTERIES CAN I RECHARGE?

A: You can recharge all types of 12 Volt batteries including lead-acid automotive batteries, deep cycle (traction type) batteries, gel-cell batteries, and heavy-duty (stationary type) batteries. When using the ICP Solar System to run appliances on a regular basis, we recommend the use of deep cycle marine batteries, which are designed to withstand frequent charging, and discharging cycles.

Q: HOW LONG WILL IT TAKE THE PRO 15W TO CHARGE A DEAD BATTERY?

A: The PRO 15W will supply the battery with 1 Amp per hour in the sun. Therefore, depending on type of battery and conditions, a battery requiring 30 Amp-hour for full charge would take approximately 30 full sunshine to recharge. If you double the panels (30Watts) you should expect half the time.

Q: CAN THE BATTERYSAVER PRO 15W DRAIN MY BATTERY AT NIGHT?

A: No, all ICP solar panels are equipped with a built-in diode, which prevents any reverse current.

Q: CAN THE BATTERYSAVER PRO 15W OVERCHARGE MY BATTERY?

A: Yes, that is why it is important to use a Charge Controller (bought separately).

Q: CAN I RUN MY WHOLE HOUSE ON THE POWER GENERATED FROM THIS PANEL.

A: No. The power generated is not enough to run your entire household. The power is best used to supply your battery with reserve power to help run your 12Volt appliances at the cottage on the boat or in your RV etc. For more information visit our website at www.icpglobal.com.

Q: CAN I RUN MY 110-VOLT APPLIANCES WITH MY SOLAR SYSTEM?

A: Yes. You can run your 110 Volts appliances, but you will need an inverter, which will attach to your battery to change the battery's 12Volt (DC) energy into 110Volt(AC).

Q: CAN I CHARGE MORE THAN ONE BATTERY AT A TIME WITH THE PRO 15W?

A: If attached to a single battery, the PRO 15W can act as a battery recharger as its full 1 Amp (max) current (power) is applied to that single battery. When attached to a bank of 2 or 3, or more batteries the power is divided into that number of batteries.

Q: CAN THE WIRING BE EXTENDED?

A: You can extend the wiring of our solar chargers another 25 feet (for a Maximum of 35 feet) using 16-gauge wire, without any significant loss of power.

Q: CAN MY PANEL BE LEFT OUTDOORS WITHOUT PROTECTIVE COVERING?

A: Yes. The PRO 15W panels have been weather protected and can be mounted outdoors. ICP PRO 15W panels are completely weatherproofed and can withstand ½ inch hailstones, up to 180°F (82°C) heat and can operate under 3 inches of snow (on sunny days).

Q: CAN I RUN AN APPLIANCE, WITHOUT A BATTERY, BY CONNECTING IT DIRECTLY TO MY SOLAR PANEL?

A: Yes. However, without a battery to store the power, the voltage and current supplied by the solar panel may vary and drop as soon as some clouds pass over, possibly causing your appliance to slow or stop working. In most cases, users connect solar panels to 12 Volt batteries, which then provides steady reliable power to the 12 Volt appliances. In addition, for the appliance to work directly from the panel, it must be designed to operate within the maximum voltage and amperage range of the PRO 15W. (15Watts, 1 Amp @ 15 Volts Max.)

Q: CAN THESE PANELS BE CONNECTED IN CONJUNCTION WITH AN INVERTER OR CONVERTER?

A: Yes, since these accessories will not interfere with your solar power system.

Q: CAN I MOUNT MY PRO 15W ON A RUBBER SURFACE?

A: Yes. However, we suggest that you use rubber spacers to create an air gap between the panel and the mounting surfaces. This will protect your panel from heat damage.

WARRANTY - A 5-year warranty is granted on the power output of the solar panel. This protection gives you assurance that the unit will produce up to 80% of its original power rating for up to 5 years from the original date of purchase. Some states do not allow exclusion or limitation of accidental or consequential losses so the exclusions may not apply to the purchase. This warranty does not cover installation or costs derived thereof. This warranty gives you specific legal rights and you may have other rights, which vary from state to state or province to province.

